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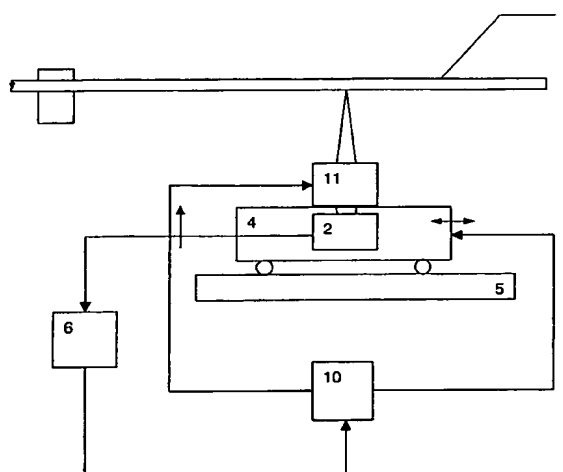
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(54) Title: **METHOD AND DEVICE FOR PERFORMING TILT CORRECTION USING MULTI-DIMENSIONAL ACTUATOR**



(57) Abstract: The present invention relates to method and device for performing tilt control. A focus and a tilt controlling output is generated, and a focusing and tilt state of an optical recording/reproducing beam is controlled by determining a radial tilt value based on a differentiation of focus control values obtained at different radii of said optical disk (1). The combination of e.g. a 3D actuator with the dz/dr tilt measurement provides the advantage that focus and tilt adjustment can be performed in the same element. Thereby, influences or measurement variations caused by environmental conditions and/or circuit characteristics can be minimized to reduce compensations requirements. Furthermore, a 3D actuator (11) with a split coil arrangement may be used to provide a three-dimensional focus adjustment. Thereby, the 3D actuator (11) can be used for feed forward tilt compensation without offset or gain errors and without any additional sensor.



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# INTERNATIONAL SEARCH REPORT

International Application No.

PC 7, IB 03/01395

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 G11B7/095

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G11B

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y A	US 2001/021164 A1 (FUJII HITOSHI ET AL) 13 September 2001 (2001-09-13) abstract	1-4,8-10 5-7, 11-13
Y A	US 5 627 808 A (HAJJAR ROGER A ET AL) 6 May 1997 (1997-05-06) column 3, line 45 -column 4, line 4; figure 3	1-4,8-10 5-7, 11-13

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Patent document cited in search report		Publication date	Patent family member(s)	Publication date
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